

Appl. No. 10/786,895
Amdt. dated June 29, 2006
Reply to Final Office Action of May 2, 2006

This listing of claims replaces all prior versions, and listings of claims in the instant application:

Listing of Claims:

1. (Previously Presented) A method for selecting a desired application on a smart card, wherein there are potentially two or more applications installed on the smart card, each application having a stored application identifier (AID), the method comprising:

receiving, on the smart card, a request including multiple parameters wherein said received multiple parameters specify a desired application;

retrieving multiple parameters from a stored AID for an application on the smart card;

comparing the specified multiple parameters with the retrieved multiple parameters to determine whether there is a match; and.

retrieving an AID including said retrieved multiple parameters upon said comparing finding a match between the received multiple parameters and the retrieved multiple parameters.

2. (Original) The method of claim 1, wherein the smart card is separated into one or more firewalls, with each application installed on the smart card being contained within one of said firewalls, and wherein one of said parameters is indicative of the firewall in which the desired application is contained.

3. (Original) The method of claim 2, wherein one of said parameters comprises an applet ID that identifies an application within a firewall.

4. (Original) The method of claim 1, wherein one of said parameters comprises a registered application provider identifier (RID).

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5. (Original) The method of claim 4, wherein said RID comprises a predetermined first portion of the AID, and one or more remaining parameters are contained within a predetermined second portion of the AID.

6. (Original) The method of claim 4, wherein said multiple parameters comprise an RID, a firewall identifier, and an applet identifier.

7. (Previously Presented) The method of claim 1, wherein said smart card is brought into communication with a terminal, and said terminal transmits said request to the smart card.

8. (Previously Presented) The method of claim 7, further comprising returning the AID including said retrieved multiple parameters to the terminal in response to the request.

9. (Previously Presented) The method of claim 7, wherein the request is received by an applet selector on the smart card, and said applet selector calls a method on an AID interpreter associated with each application on the smart card to perform said retrieving.

10. (Previously Presented) The method of claim 9, wherein the AID interpreter associated with each application performs said comparing and notifies the applet selector of whether there is a match for that application.

11. (Original) The method of claim 9, wherein said applet selector performs the comparing of the specified parameters with the retrieved parameters for each application.

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12. (Original) The method of claim 9, further comprising transmitting the retrieved parameters from the smart card to the terminal.

13. (Original) The method of claim 1, wherein each application on the smart card contains an AID interpreter, and the retrieving is performed by said AID interpreter.

14. (Original) The method of claim 13, wherein said comparing is performed by the AID interpreter.

15. (Original) The method of claim 1, wherein said smart card is brought into communication with a terminal, and said terminal transmits a request to the smart card for a listing of the AID of each application installed on the card.

16. (Original) The method of claim 15, wherein said retrieving and comparing are performed in the terminal on each AID in the listing of AIDs received by the terminal from the card in response to said request.

17. (Original) The method of claim 16, further comprising downloading at least one AID interpreter to run on the terminal in order to retrieve the multiple parameters from a corresponding AID.

18. (Original) The method of claim 1, wherein said AID comprises additional information apart from said multiple parameters.

19. (Original) The method of claim 1, further comprising:

bringing a first card into communication with a terminal;

bringing a second card into communication with the terminal;

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wherein the terminal specifies the same desired application in terms of the same multiple parameters for each of said first and second cards; and

wherein a first matching application having a first AID is identified on the first card and a second matching application having a second AID is identified on the second card, wherein the first AID is different from the second AID.

20. (Original) The method of claim 19, wherein the first AID shares a common initial portion with the second AID, and wherein the multiple parameters are not completely contained within said common initial portion.

21. (Currently Amended) A smart card having multiple applications installed therein, each application comprising:

a stored application identifier (AID); and

an AID interpreter, wherein said AID interpreter is operable to retrieve and parse the stored AID into multiple parameters for identifying the application;

wherein said smart card further comprises:

a communication interface for communication with a terminal, wherein the smart card is operable to receive a request from the terminal specifying a desired application on the smart card in terms of said multiple parameters; and

an applet selector operable to receive the request and to call a method on an AID interpreter associated with each application on the smart card,

wherein said AID interpreter is responsive to said call to retrieve the corresponding AID; and

said applet selector is operable to receive the multiple parameters of the retrieved AID for an application, and to

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compare the received parameters with the
specified parameters from the terminal.

22. (Original) The smart card of claim 21, wherein the smart card is separated into one or more firewalls, with each application installed on the smart card being contained within one of said firewalls, and wherein one of said parameters is indicative of the firewall in which the application is contained.

23. (Original) The smart card of claim 22, wherein one of said parameters comprises an applet ID that identifies an application within a firewall.

24. (Original) The smart card of claim 21, wherein one of said parameters comprises a registered application provider identifier (RID).

25. (Original) The smart card of claim 24, wherein said RID comprises a predetermined first portion of the AID, and one or more remaining parameters are contained within a predetermined second portion of the AID.

26. (Original) The smart card of claim 24, wherein said multiple parameters comprise an RID, a firewall identifier, and an applet identifier.

27. (Cancelled)

28. (Currently Amended) The smart card of claim 27 21, wherein the smart card is operable to return to the terminal in response to the request the AID of an application whose retrieved parameters match the specified parameters.

29. (Cancelled)

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30. (Currently Amended) The smart card of claim 2921, wherein the AID interpreter associated with each application is responsive to said call to compare the retrieved parameters with the specified parameters and to notify the applet selector of whether there is a match for that application.

31. (Cancelled).

32. (Currently Amended) The smart card of claim 2921, wherein said applet selector is operable to receive the multiple parameters of the retrieved AID for an application, and to return the retrieved parameters to the terminal.

33. (Currently Amended) The smart card of claim 21, wherein said smart card further comprises a communication interface for communication with a terminal, wherein the smart card is operable to receive a request from the terminal and to respond to the request by returning the retrieved multiple parameters to the terminal.

34. (Currently Amended) A terminal for use with a smart card having multiple applications installed therein, each application comprising an application identifier (AID) and an AID interpreter, wherein said AID interpreter is operable to retrieve and parse the AID into multiple parameters for identifying the application, and wherein said terminal comprises at least one set of multiple parameters for identifying a desired application on the smart card, and a communications interface for exchanging messages with the smart card; the terminal is responsive to being brought into communication with the smart card to transmit a request to the smart card for a listing of the AID of each application installed on the card; and the terminal is operable to parse an AID received from the smart card into multiple parameters, and to compare the multiple parameters

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received from the application with the multiple parameters for the desired application.

35. (Cancelled)

36. (Cancelled)

37. (Currently Amended) The terminal of claim 3634, wherein the terminal is operable to identify the location of at least one AID interpreter to run on the terminal in order to parse the multiple parameters from a corresponding AID.

38. (Currently Amended) The terminal of claim 3634, wherein the terminal is operable to download said at least one AID interpreter from the identified location to run on the terminal in order to parse the multiple parameters from a corresponding AID.

39. (Previously Presented) Apparatus for selecting a desired application on a smart card, wherein there are potentially two or more applications installed on the smart card, each application having a stored application identifier (AID), the apparatus comprising:

means for receiving, on the smart card, a request including multiple parameters wherein said received multiple parameters specify a desired application;

means for retrieving multiple parameters from a stored AID for an application on the smart card;

means for comparing the specified multiple parameters with the retrieved multiple parameters to determine whether there is a match; and,

means for retrieving an AID including said retrieved multiple parameters upon said comparing finding a match between the received multiple parameters and the retrieved multiple parameters

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40. (Previously Presented) A computer program product comprising instructions on a medium, wherein said instructions when loaded into a machine cause the machine to perform a selection of a desired application on a smart card, wherein there are potentially two or more applications installed on the smart card, each application having a stored application identifier (AID), said selection being performed by:

receiving, on the smart card, a request including multiple parameters wherein said received multiple parameters specify a desired application;

retrieving multiple parameters from a stored AID for an application on the smart card;

comparing the specified multiple parameters with the retrieved multiple parameters to determine whether there is a match; and.

retrieving an AID including said retrieved multiple parameters upon said comparing finding a match between the received multiple parameters and the retrieved multiple parameters

41. (Original) The computer program product of claim 40, wherein the smart card is separated into one or more firewalls, with each application installed on the smart card being contained within one of said firewalls, and wherein one of said parameters is indicative of the firewall in which the desired application is contained.

42. (Original) The computer program product of claim 41, wherein one of said parameters comprises an applet ID that identifies an application within a firewall.

43. (Original) The computer program product of claim 40, wherein one of said parameters comprises a registered application provider identifier (RID).

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44. (Original) The computer program product of claim 43, wherein said RID comprises a predetermined first portion of the AID, and one or more remaining parameters are contained within a predetermined second portion of the AID.

45. (Original) The computer program product of claim 43, wherein said multiple parameters comprise an RID, a firewall identifier, and an applet identifier.

46. (Previously Presented) The computer program product of claim 40, wherein said smart card is brought into communication with a terminal, and said terminal transmits said request to the smart card.

47. (Previously Presented) The computer program product of claim 46, wherein the selection is further performed by returning the AID including said retrieved multiple parameters to the terminal in response to the request.

48. (Previously Presented) The computer program product of claim 46, wherein the request is received by an applet selector on the smart card, and said applet selector calls a method on an AID interpreter associated with each application on the smart card to perform said retrieving.

49. (Previously Presented) The computer program product of claim 48, wherein the AID interpreter associated with each application performs said comparing and notifies the applet selector of whether there is a match for that application.

50. (Original) The computer program product of claim 48, wherein said applet selector performs the comparing of the specified parameters with the retrieved parameters for each application.

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51. (Original) The computer program product of claim 48, wherein the selection is further performed by transmitting the retrieved parameters from the smart card to the terminal.

52. (Original) The computer program product of claim 40, wherein each application on the smart card contains an AID interpreter, and the retrieving is performed by said AID interpreter.

53. (Original) The computer program product of claim 52, wherein said comparing is performed by the AID interpreter.

54. (Original) The computer program product of claim 40, wherein said smart card is brought into communication with a terminal, and said terminal transmits a request to the smart card for a listing of the AID of each application installed on the card.

55. (Original) The computer program product of claim 54, wherein said retrieving and comparing are performed in the terminal on each AID in the listing of AIDs received by the terminal from the card in response to said request.

56. (Original) The computer program product of claim 55, wherein said selection is further performed by downloading at least one AID interpreter to run on the terminal in order to retrieve the multiple parameters from a corresponding AID.

57. (Original) The computer program product of claim 40, wherein said AID comprises additional information apart from said multiple parameters.

58. (Original) The computer program product of claim 40, wherein said selection is further performed by:

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bringing a first card into communication with a terminal;

bringing a second card into communication with the terminal;

wherein the terminal specifies the same desired application in terms of the same multiple parameters for each of said first and second cards; and

wherein a first matching application having a first AID is identified on the first card and a second matching application having a second AID is identified on the second card, wherein the first AID is different from the second AID.

59. (Original) The computer program product of claim 58, wherein the first AID shares a common initial portion with the second AID, and wherein the multiple parameters are not completely contained within said common initial portion.

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